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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722,174	11/25/2003		MacKenzie King	ATMI-688 7009		
25559 ATMI, INC.	7590	11/09/2007		EXAMINER		
7 COMMERC				SMITH, NICHOLAS A		
DANBURY, CT 06810				ART UNIT	PAPER NUMBER	
				1795		
				MAIL DATE	DELIVERY MODE	
				11/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/722,174	KING ET AL.					
Office Action Summary	Examiner	Art Unit					
	Nicholas A. Smith	1795					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 04 Se	eptember 2007.						
··· '=	∑ This action is FINAL. 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-34 is/are pending in the application.							
4a) Of the above claim(s) <u>1-13</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) <u>14-34</u> is/are rejected.							
7) Claim(s) is/are objected to.	r election requirement						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
1) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-192.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/24/07.	5) Notice of Informal P						

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DETAILED ACTION

Status of Claims

1. Claims 14-34 remain for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 14-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Andricacos et al. (US 5,352,350).
- 4. Andricacos et al. is applied to the claims for the same reasons as stated in paragraph(s) 5-11 of the previous office action.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - a. A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andricacos et al. in view of Chung et al. (US 6,409,903).
- 7. Andricacos et al. in view of Chung et al. is applied to the claims for the same reasons as stated in paragraph(s) 14-16 of the previous office action.

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Response to Arguments

8. Applicant's arguments filed 4 September 2007 have been fully considered but they are not persuasive. In regards to Applicant's argument that Andricacos et al. does not explicitly disclose a regression analysis, Applicant is reminded that even though the prior art does not use the term "regression analysis" explicitly, Applicant is reminded that regression analysis includes predicting a dependent variable based on a independent variable, and, Andricacos et al. gives an explanation in col. 7, line 65 to col. 8, line 2, wherein an equation coefficient (k) is determined empirically (Δs is change in process service, i.e., plating current, the wafer-based independent variable). In regards to Applicant's argument that the Chung et al. reference is unnecessary because Andricacos et al. already provides workpiece plating, Applicant is reminded that Chung et al. more specifically states the method of plating the workpiece, i.e. a seed layer on the workpiece and that such a method is not taught away from by Andricacos et al.

Conclusion

- 9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 10. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas A. Smith whose telephone number is (571)-272-8760. The examiner can normally be reached on 8:30 AM to 5:00 PM, Monday through Friday.
- 12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Susy Tsang-Foster can be reached on (571)-272-1293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Harry D. Wilkins, III/ Harry D. Wilkins, III Primary Examiner Art Unit 1795 Application/Control Number: 10/722,174 Art Unit: 1795

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